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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Declaration and Power of Attorney**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **Method And System For Adaptive Transmission Of Smoothed Data Over Wireless Channels**, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119(a-d) pr 365(a-b) of PCT or foreign application(s) for patent or inventors' certificate listed below or priority benefits under 119(e) of any United States provisional application(s) listed below and have also identified below any foreign application for patent or inventors' certificate having a filing date before that of the application on which priority is claimed:

**None**

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, we acknowledge the duty to disclose all information known to us to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**None**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Samuel H. Dworetzky	(Reg. No. 27873)
Thomas A. Restaino	(Reg. No. 33444)
Cedric G. DeLaCruz	(Reg. No. 36498)
Michele L. Conover	(Reg. No. 34962)
Rohini K. Garg	(Reg. No. 45272)
Robert B. Levy	(Reg. No. 28234)
Benjamin S. Lee	(Reg. No. 42787)
Susan E. McHale	(Reg. No. 35948)
Alfred G. Steinmetz	(Reg. No. 22971)

I also appoint James A. Oliff (Reg. No. 27075), William P. Berridge (Reg. No. 30024), Kirk M. Hudson (Reg. No. 27562), Thomas J. Pardini (Reg. No. 30411), Paul Tsou (Reg. No. 37956) and Christine M. Hoeft (Reg. No. 41844) of Oliff & Berridge as associate attorneys, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence to Mr. S. H. Dworetzky, AT&T Corp., P.O. Box 4110, Middletown, New Jersey 07748. Telephone calls should be made to Cedric G. DeLaCruz at 973-360-8122.

Full name of 1<sup>st</sup> joint inventor: Zhimei Jiang

Inventor's signature  Date 10/16/99

Residence: Eatontown, Monmouth County

Citizenship: People's Republic of China

Post Office Address: 214B Eaton Crest Drive  
Eatontown, New Jersey 07724

Full name of 2<sup>nd</sup> joint inventor: Leonard Kleinrock

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence: Los Angeles, Los Angeles County, California

Citizenship: United States of America

**Post Office Address:** 318 N. Rockingham Avenue  
Los Angeles, California 90049

**DECLARATION FOR  
UTILITY OR DESIGN  
PATENT APPLICATION**

Declaration Submitted OR  Declaration submitted after Initial Filing

Attorney Docket Number	1999-0
First Named Inventor	Zhimei Jiang
<b>COMPLETE IF KNOWN</b>	
Application Number	09/470481
Filing Date	12/22/1999
Group Art Unit	2739
Examiner Name	

As a below named Inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor(if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method And System For Adaptive Transmission Of Smoothed Data Over Wireless Channels

*(Title of Invention)*

the specification of which

is attached hereto

OR

was filed on 12/22/1999 as United States Application Number or PCT International

Application Number 09/470481 and was amended on (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of an application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) below.

Application Number(s)	Filing Date( MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231

Attorney Docket Number: 1999-0162

# DECLARATION - Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (If applicable)

Additional U.S. or PCT International application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Customer Number

Place Customer Number Bar  
Code Label here

OR

Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
CONOVER, Michele L.	34962	DELACRUZ, Cedric G	36498
DWORETSKY, Samuel H.	27873	GARG, Rohini K	45272
LEE, Benjamin S.	42787	LEVY, Robert B.	28234
MCHALE, Susan E.	35948	MONKA, Gary H.	35290
NAVON, Jeffrey M	32711	RESTAINO, Thomas A.	33444

I also appoint the following additional registered practitioner(s) named on the supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

Direct all Correspondence to:

Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or  Correspondence address below

NAME	Samuel H. Dworetsky				
ADDRESS	AT&T CORP. P.O. Box 4110				
CITY	Middletown	STATE	New Jersey	ZIP CODE	07748-4110
COUNTRY	United States of America			FAX	732-368-6932

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor

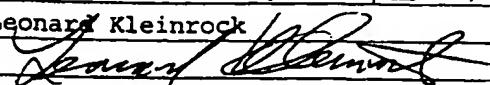
A petition has been filed for this unsigned inventor

Name	Zhimei Jiang		
Signature		Date	
Citizenship	China P.R.		
Address (line 1)	214 B EatonCrest Drive		
Address (line 2)	Eatontown		
Address (line 3)	Monmouth County		
Address (line 4)	New Jersey		
Address (line 5)	USA		
Zip Code	07724		

Additional Inventors are being named on the 1 separately numbered sheets attached hereto

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

Attorney Docket Number: 1999-0162

<b>DECLARATION</b>		ADDITIONAL INVENTOR(S) Supplemental Sheet Page _____ of _____	
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Name	Leonard Kleinrock 		
Signature			
Citizenship	United States		
Address (line 1)	318 N. Rockingham Avenue		
Address (line 2)	Los Angeles		
Address (line 3)	Los Angeles County		
Address (line 4)	California		
Address (line 5)	USA		
Zip Code	90049		
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Name			
Signature			
Citizenship			
Address (line 1)			
Address (line 2)			
Address (line 3)			
Address (line 4)			
Address (line 5)			
Zip Code			
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Name			
Signature			
Citizenship			
Address (line 1)			
Address (line 2)			
Address (line 3)			
Address (line 4)			
Address (line 5)			
Zip Code			
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Name			
Signature			
Citizenship			
Address (line 1)			
Address (line 2)			
Address (line 3)			
Address (line 4)			
Address (line 5)			
Zip Code			

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

Attorney Docket Number: 1999-0162

<b>DECLARATION</b>		Registered Practitioner Information (Supplemental Sheet)	
Name	Registration Number	Name	Registration Number
STEINMETZ, Alfred G.	22971		

SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Zhimei Jiang et al.

Docket No. 1999-0162

Serial No. 09/470,481 Group Art Unit 2697

Filed December 22, 1999 Confirmation No. 6201

Examiner M. Demicco

Title Method And System For Adaptive Transmission Of Smoothed  
Data Over Wireless Channels

COMMISSIONER FOR PATENTS

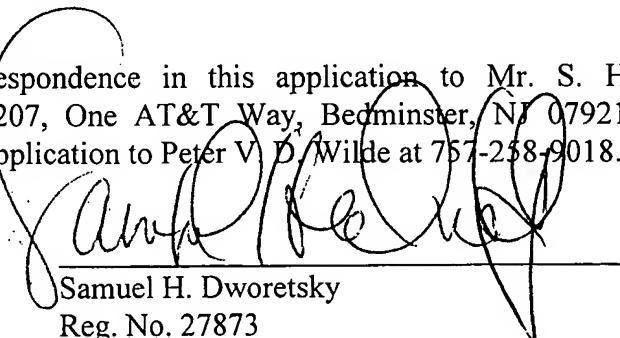
P.O. Box 1450  
Alexandria, Virginia 22313-1450

SIR:

REVOCATION OF ASSOCIATE POWER AND APPOINTMENT OF NEW  
ASSOCIATE ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Revoking all associate powers of attorney heretofore given in the above-identified application, please recognize Peter V. D. Wilde (Reg. No. 19658) as associate attorney in the above-mentioned application, with full power to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith. Please also recognize any of the attorneys associated with Customer Number 26652 of AT&T Corp., Middletown, New Jersey, with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, and to transact all business in the Patent and Trademark Office connected therewith.

Please direct all written correspondence in this application to Mr. S. H. Dworetzky, AT&T Corp., Room 2A-207, One AT&T Way, Bedminster, NJ 07921. Please direct all telephone calls in this application to Peter V. D. Wilde at 737-258-9018.

  
Samuel H. Dworetzky  
Reg. No. 27873  
Attorney for Applicants

Date: 03/10/04  
AT&T Corp.  
P. O. Box 4110  
Middletown, New Jersey 07748

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Honorable Assistant Commissioner of Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  Zhimei Jiang		2. Name and address of receiving party(ies):  Name: <u>AT&amp;T Corp.</u> Internal Address: _____
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Street Address: <u>32 Avenue of the Americas</u>
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other		City: <u>New York</u> State: <u>New York</u> ZIP:- <u>10013-2412</u>
Execution Date: <u>December 16, 1999</u>		Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is <u>Dec. 16, 1999</u>		
A. Patent Application No	B. Patent No. (s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: <u>1</u>
Name: <u>Mr. Samuel H. Dworetzky</u>		7. Total fee (37 CFR 3.41) \$ <u>40.00</u>
Street Address: <u>AT&amp;T Corp.</u> <u>P.O. Box 4110</u>		<input type="checkbox"/> Enclosed
City: <u>Middletown</u> State: <u>New Jersey</u> ZIP: <u>07748-4110</u>		<u>X</u> Authorized to be charged to deposit account
		8. Deposit account number: <u>01-2745</u>
(Attach duplicate copy of this page if paying by deposit account)		

**DO NOT USE THIS SPACE**

9. Statement and signature.	
<i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>	
<u>Ann E. Taylor</u> Name of Person Signing	<u><i>Ann C. Taylor</i></u> Signature
<u>Dec. 22, 1999</u> Date	
1999-0162	Total number of pages including cover sheet, attachments, and document: 4

**Mail documents to be recorded with required cover sheet information to:**

**Assistant Commissioner of Patents, Box Assignments  
Washington, D. C. 20231**

Washington, D. C. 20231

**ASSIGNMENT AND AGREEMENT**

For value received, we, Zhimei Jiang, of Eatontown in the County of Monmouth and State of New Jersey, and Leonard Kleinrock, of Los Angeles in the County of Los Angeles and State of California, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **Method And System For Adaptive Transmission Of Smoothed Data Over Wireless Channels** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

We agree that, when requested, we shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.



Zhimei Jiang

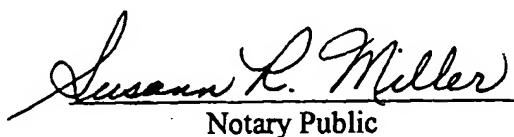
Date: 10/16/99

United States of America )

State of NEW JERSEY )ss:

County of MONMOUTH )

On this 16<sup>th</sup> day of DECEMBER, 1999, before me personally came Zhimei Jiang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Susan P. Miller  
Notary Public

Susan P. Miller  
Notary Public of New Jersey  
My Commission Expires 07 23 2004

---

Leonard Kleinrock

Date: \_\_\_\_\_

United States of America )

State of )ss:

County of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_, before me personally  
came Leonard Kleinrock, to me known to be the individual described in and who  
executed the foregoing instrument, and acknowledged execution of the same.

---

Notary Public

AT&T Corp.  
P.O. Box 4110  
Middletown, New Jersey 07748-4110